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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/961,395	09/25/2001	Harald Jakob	P 265258 000345 PV	5500
909	7590 02/06/2004		EXAMINER	
PILLSBURY WINTHROP, LLP			LISH, PETER J	
P.O. BOX 105 MCLEAN, V.			ART UNIT PAPER NUMBER	
, , , , , , , , , , , , , , , , , , ,			1754	

DATE MAILED: 02/06/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

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¥ - 4,5°		Application No.	Applicant(s)	
		09/961,395	JAKOB ET AL.	
	Office Action Summary	Examiner	Art Unit	
		Peter J Lish	1754	
Period f	The MAILING DATE of this communicator Reply	tion appears on the cover sheet w	ith the correspondence address	S
THE - Extending - If th - If No - Fail - Any	HORTENED STATUTORY PERIOD FOR MAILING DATE OF THIS COMMUNICA ensions of time may be available under the provisions of a r SIX (6) MONTHS from the mailing date of this communical eperiod for reply specified above is less than thirty (30) do period for reply is specified above, the maximum statuture to reply within the set or extended period for reply will reply received by the Office later than three months after need patent term adjustment. See 37 CFR 1.704(b).	ATION. 17 CFR 1.136(a). In no event, however, may a cation. ays, a reply within the statutory minimum of thiory period will apply and will expire SIX (6) MO, by statute, cause the application to become A	reply be timely filed rty (30) days will be considered timely. NTHS from the mailing date of this commun BANDONED (35 U.S.C. § 133).	ication.
1)⊠	Responsive to communication(s) filed	on <u>05 November 2003</u> .		
2a) <u></u> ☐	This action is FINAL . 2b)	oxtimes This action is non-final.		
3)	Since this application is in condition for closed in accordance with the practice	allowance except for formal mat under <i>Ex part</i> e <i>Quayl</i> e, 1935 C.I	ters, prosecution as to the med D. 11, 453 O.G. 213.	its is
Disposi	tion of Claims			
4)🖂	Claim(s) <u>1-19</u> is/are pending in the app	olication.		
	4a) Of the above claim(s) is/are	withdrawn from consideration.		
5)[Claim(s) is/are allowed.			
6)🔯	Claim(s) 1-19 is/are rejected.			
	Claim(s) is/are objected to.			
8)[_]	Claim(s) are subject to restriction	n and/or election requirement.		
Applica	tion Papers			
9)	The specification is objected to by the E	Examiner.		
10)	The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to	by the Examiner.	
	Applicant may not request that any objection			
	Replacement drawing sheet(s) including the			
11)	The oath or declaration is objected to b	y the Examiner. Note the attache	ed Office Action or form PTO-1	52.
-	under 35 U.S.C. §§ 119 and 120			
* 13)	Acknowledgment is made of a claim for Diagram All b) Some * c) None of: 1. Certified copies of the priority do a claim for See the attached detailed Office action of Acknowledgment is made of a claim for since a specific reference was included in a claim for the foreign language. Acknowledgment is made of a claim for since a specific reference was included in the foreign language.	ocuments have been received. Incuments have been received in a street the priority documents have been all Bureau (PCT Rule 17.2(a)). If or a list of the certified copies not domestic priority under 35 U.S.C in the first sentence of the specificage provisional application has adomestic priority under 35 U.S.C	Application No n received in this National Staget received § 119(e) (to a provisional application Databeen received §§ 120 and/or 121 since a sp	lication) a Sheet. ecific
Attachme	• •	A) Interview	Summary (PTO-413) Paper No(s)	
	ice of References Cited (PTO-892) ice of Draftsperson's Patent Drawing Review (PTC	·	Informal Patent Application (PTO-152)	
	rmation Disclosure Statement(s) (PTO-1449) Paper	· —	•	

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DETAILED ACTION

Applicant's arguments, filed 11/05/03 have been considered but are moot in view of the new ground(s) of rejection.

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 1 and 8 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. The amended claims recite that the additives and the sodium percarbonate product do not contain a condensed phosphate, whereas the specification and original claims only support the limitations that the additives and the sodium percarbonate product do not contain the combination of a magnesium salt and a condensed phosphate.

Claim Rejections - 35 USC § 103

Claims 1-19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bewersdorf et al. (US 5,560,896).

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Bewersdorf teaches a process for the production of sodium percarbonate. The process comprises spraying an aqueous sodium carbonate solution and a hydrogen peroxide solution onto nuclei in a fluidized bed and evaporating the water. The process utilizes a ternary atomizer nozzle, which allows the solutions to be sprayed through separate channels in order to provide external mixing of the solution, thus preventing the need for condensed phosphates. The hydrogen peroxide solution customarily contains 30-75 % by weight hydrogen peroxide, while the sodium carbonate solution contains above 10 %, and especially preferred about 30 %, by weight sodium carbonate. The fluidized bed is maintained at a temperature of between 40 and 95 °C. If needed, additives can be added to either of the hydrogen peroxide and sodium carbonate solutions in order to influence the product qualities and especially to elevate active oxygen stability. The preferred additives are magnesium salts, usually added to the hydrogen peroxide in the form of the sulfate, and water glass, usually added to the sodium carbonate solution. The amounts of these additives are not explicitly taught by Bewersdorf et al., however, it would have been obvious to one of ordinary skill at the time of invention to use an amount between 50 and 2000 ppm, or more specifically between 200 and 1000 ppm, based on the product, as doing so is viewed to be the optimization of a known process, which could have been determined through routine experimentation, and is held to be obvious by In re Boesch 205 USPQ 215.

Regarding claims 6 and 14-15, it would have been obvious to use a water glass, including one having an SiO₂/Na₂O module of from 1 to 3, more specifically from 1 to 2, in an amount corresponding to 0.1 to 1 wt.% SiO₂, more specifically 0.1 to 0.5 wt.% SiO₂, based on sodium percarbonate, as doing so is viewed to be the optimization of a known process, which could have

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been determined through routine experimentation, and is held to be obvious by *In re Boesch* 205 USPQ 215.

Regarding claims 8-11 and 18-19, it is expected that the sodium percarbonate produced by the process of Bewersdorf et al., as above, will have identical properties to those claimed, as they are produced by the same process.

Regarding claim 4, it is noted that the claim does not contain a positive limitation. The claim limits the complexing agent of claim 1, however, the use of the complexing agent is not required by claim 1.

Claims 1-19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bewersdorf et al. ('896) in view of Brichard et al. (US 4,428,914).

Bewersdorf teaches a process for the production of sodium percarbonate. The process comprises spraying an aqueous sodium carbonate solution and a hydrogen peroxide solution onto nuclei in a fluidized bed and evaporating the water. The process utilizes a ternary atomizer nozzle, which allows the solutions to be sprayed through separate channels in order to provide external mixing of the solution, thus preventing the need for condensed phosphates. The hydrogen peroxide solution customarily contains 30-75 % by weight hydrogen peroxide, while the sodium carbonate solution contains above 10 %, and especially preferred about 30 %, by weight sodium carbonate. The fluidized bed is maintained at a temperature of between 40 and 95 °C. If needed, additives can be added to either of the hydrogen peroxide and sodium carbonate solutions in order to influence the product qualities and especially to elevate active oxygen stability. The preferred additives are magnesium salts, usually added to the hydrogen

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peroxide in the form of the sulfate, and water glass, usually added to the sodium carbonate solution. Bewersdorf et al do not explicitly teach the amounts of these additives.

Brichard, in a similar process, teaches that additives, such as stabilizers of magnesium sulfate and sodium silicate are added to the aqueous solutions. The stabilizers are generally added in amounts between about 1-20 g of stabilizer per kg of sodium percarbonate product, which is equivalent to between 100 - 20,000 ppm (column 4, lines 19-31). It would have been obvious to one of ordinary skill at the time of invention in the process of Bewersdorf et al. to add the stabilizers in an amount corresponding to the amount generally used, as taught by Brichard et al. to accomplish the desired effect of the additives.

Regarding claims 8-11 and 18-19, it is expected that the sodium percarbonate produced by the process of Bewersdorf et al., as above, will have identical properties to those claimed, as they are produced by the same process.

Regarding claim 4, it is noted that the claim does not contain a positive limitation. The claim limits the complexing agent of claim 1, however, the use of the complexing agent is not required by claim 1.

Claims 6 and 14-15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bewersdorf ('896) as applied to claim 1 above, and further in view of Bewersdorf et al. (USPN 5,714,201).

Bewersdorf et al. '896 teach that sodium silicate is added to the aqueous solutions as a stabilizer. However, they do not teach the specific amount to be added or the modulus.

Bewersdorf et al. '201 teach a similar fluidized bed process with the addition of a sodium silicate

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with a modulus between 1 and 3 to an aqueous solution. The sodium silicate is introduced in an amount between 0.1 and 2.5 wt%, preferably between 0.5 and 1 wt%, in each case calculated as SiO₂ and relative to sodium percarbonate (column 4, lines 5-11). It would have been obvious to one of ordinary skill in the art at the time of invention to add the sodium silicate, or water glass, as a stabilizer in the process of Brewersdorf et al '896, in the amounts taught by Bewersdorf et

al. '201, in order to accomplish the desired effect of the additive.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Peter J Lish whose telephone number is 571-272-1354. The examiner can normally be reached on 9:00-6:00 Monday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stanley Silverman can be reached on 571-272-1358. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0661.

PL

STUART L. HENDRICKSON PRIMARY EXAMINER

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